

Structure and molecular lability of N-(thio)phosphoryl(thio)amides: XVII. Intramolecular transformations of N,N'-bis(thio)phosphoryl(thio)ureas with the open-chain fragment in DMSO solution

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Abstract

By means of the ^1H , ^{13}C , and ^{31}P NMR spectroscopy structure and intramolecular transformations of N,N'-bis[diisopropoxythiophosphorylaminothiocarbonyl]-1,7-diaminoheptane in 3-10% DMSO solutions were studied. High lability of molecule with the realization of two conformers (linear and pincer-like) of macromolecule, of the proton imide-imide exchange, and of different tautomeric forms was proved. © 2013 Pleiades Publishing, Ltd.

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